WEST

The Contents of Case 09658699

| Qnum | Query | DB Name | Thesaurus | Operator | Plural |
|------|--|--------------------------|-----------|----------|--------|
| Q1 | (oppmann)[IN] | USPT,PGPB,JPAB,EPAB,DWPI | None | OR | YES |
| Q2 | or (lira)[in] or (marula)[in] | USPT,PGPB,JPAB,EPAB,DWPI | | OR | YES |
| Q3 | Q2 and ((IL adj 12 adj P40) or (IL adj B30)) | USPT,PGPB,JPAB,EPAB,DWPI | None | OR | YES |
| Q4 | ((IL adj 12 adj P40) or (IL adj B30)) | USPT,PGPB,JPAB,EPAB,DWPI | None | OR | YES |
| Q5 | ((IL adj 12 adj P40) and(IL adj B30)) | USPT,PGPB,JPAB,EPAB,DWPI | None | OR | YES |
| Q6 | ((IL adj 12 adj P40) and (IL adj B30)) | USPT,PGPB,JPAB,EPAB,DWPI | None | OR | YES |
| Q7 | (IL adj 12 adj P40) near antibod\$4 | USPT,PGPB,JPAB,EPAB,DWPI | None | OR | YES |
| Q8 | il adj b30 | USPT,PGPB,JPAB,EPAB,DWPI | None | OR | YES |
| Q9 | Q8 near antibod\$4 | USPT,PGPB,JPAB,EPAB,DWPI | None | OR | YES |

| Run Case | Update Case | Cancel |
|----------|-------------|--------|
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DATE: Monday, May 13, 2002

| Set Name side by side | | Hit Count | Set Name result set | | | | | |
|--|--|-----------|------------------------|--|--|--|--|--|
| $DB=USPT,PGPB,JPAB,EPAB,DWPI;\ PLUR=YES;\ OP=OR$ | | | | | | | | |
| L33 | L32 near antibod\$4 | 1 | L33 | | | | | |
| L32 | il adj b30 | 6 | L32 | | | | | |
| L31 | (IL adj 12 adj P40) near antibod\$4 | 1 | L31 | | | | | |
| L30 | ((IL adj 12 adj P40) and (IL adj B30)) | 1 | L30 | | | | | |
| L29 | ((IL adj 12 adj P40) and(IL adj B30)) | 1 | L29 | | | | | |
| L28 | ((IL adj 12 adj P40) or (IL adj B30)) | | L28 | | | | | |
| L27 | L26 and ((IL adj 12 adj P40) or (IL adj B30)) | | L27 | | | | | |
| L26 | (oppmann)[IN] or (de waal malefyt)[in] or (rennick)[in] or (kastelein) [in] or (wickowski)[in] or (lira)[in] or (narula)[in] | 52987 | L26 | | | | | |
| L25 | (oppmann)[IN] | 20 | L25 | | | | | |
| _134_ | laminin same ((alpha adj 2) same (beta adj 1) same (gamma adj 3)) | 1 | L24 | | | | | |
| L23 | laminin adj 12 | 2 | L23 | | | | | |
| L22 | L21 and laminin | 29 | L22 | | | | | |
| L21 | (burgeson)[IN] OR (champliaud)[IN] or (olsen) [inv] or (koch) [in] or (brunken) [in] | 14084 | L21 | | | | | |
| L20 | (burgeson)[IN] OR (champliaud)[IN] | 68 | L20 | | | | | |
| L19 | RO adj ssa | 8 | L19 | | | | | |
| DB=US | PT; PLUR=YES; OP=OR | | | | | | | |
| L18 | 4784942 pn. | 1 | L18 | | | | | |
| L17 | 475118¶.pn. \ | 1 | L17 | | | | | |
| DB=USPT,PGPB,JPAB,EPAB,QWPI; PLUR=YES; OP=OR | | | | | | | | |
| L16 | (52KD or (52 adj kd) or (52 adj (52 adj kd))) near (RO\$4) | 3 | L16 | | | | | |
| L15 | (52KD or (52 adj kd) or (52 adj (52 adj kd))) | 289 | L15 | | | | | |
| L14 | 6111088/\ \ | 2 | L14 | | | | | |
| L13 | L10 and (52KD or (52 adj kd) or (52 adj (52 adj kd))) | 17 | L13 | | | | | |
| L12 | L11 and (52KD or (52 adj kd) or (52 adj (52 adj kd))) | , 0 | L12 | | | | | |
| L11 | L10 and SLE | 27 | L11 | | | | | |
| L10 | (Frank)[IN] OR (itoh)[IN] | √ \80879 | L10 | | | | | |
| L9 | L8 and immunogen\$4 | 2 | L9 | | | | | |
| L8 | L7 near (mutat\$4 or alter\$ or recomb\$4 or modit\$4) | 29 | L8 | | | | | |
| L7 | streptokinase | 3185 | L7 | | | | | |
| L6 | ((less or decreas\$4 pr reduc\$4) adj immunogen\$8) same(class adj II) | 9 | L6 | | | | | |

-4.34

-4.34

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L8 ANSWER 4 OF 29 MEDLINE DUPLICATE 3

ACCESSION NUMBER: 2002286910 MEDLINE

DOCUMENT NUMBER: 22018121 PubMed ID: 12023338

TITLE: IL-23 and IL-12 have overlapping, but

distinct, effects on murine dendritic cells.

AUTHOR: Belladonna Maria Laura; Renauld Jean-Christophe; Bianchi Roberta; Vacca Carmine; Fallarino Francesca; Orabona

Ciriana; Fioretti Maria Cristina; Grohmann Ursula; Puccetti

Paolo

CORPORATE SOURCE: Department of Experimental Medicine, University of Perugia,

Perugia, Italy.

SOURCE: JOURNAL OF IMMUNOLOGY, (2002 Jun 1) 168 (11) 5448-54.

Journal code: 2985117R. ISSN: 0022-1767.

PUB. COUNTRY: United States

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals

ENTRY MONTH: 200206

ENTRY DATE: Entered STN: 20020528

Last Updated on STN: 20020613 Entered Medline: 20020612

IL-23 is a recently discovered heterodimeric cytokine ΑB that shares biological properties with proinflammatory cytokines. The biologically active heterodimer consists of p19 and the p40 subunit of IL-12. IL-23 has been shown to possess biological activities on T cells that are similar as well distinct from those of IL-12. We have constructed single-chain IL-23 and IL-12 fusion proteins (IL-23-Ig and IL-12-Ig) and have compared the two recombinant proteins for effects on murine dendritic cells (DC). Here we show that the IL-23-Ig can bind a significant proportion of splenic DC of both the CD8alpha(-) and CD8alpha(+) subtypes. Furthermore, IL-23and IL-12-Ig exert biological activities on DC that are only in part overlapping. While both proteins induce IL-12 production from DC, only IL-23-Ig can act directly on CD8alpha(+) DC to promote immunogenic presentation of an otherwise tolerogenic tumor peptide. In addition, the in vitro effects of IL-23-Ig did not appear to require IL-12Rbeta2 or to be mediated by the production of IL-12. These data may establish IL -23 as a novel cytokine with major effects on APC.

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   NEWS
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                              Feb 19
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                    6 Mar 08
7 Mar 22
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    NEWS
                  8 Mar 22
9 Mar 28
                              Mar 22
    NEWS
  NEWS 10 Mar 28

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    => s (antibod? or Fab) (10N) ((IL-12 (1N) p40) or (IL (1N) B30))
L1 46 (ANTIBOD? OR FAB) (10N) ((IL-12 (1N) P40) OR (IL (1N) B30))
    => S (antibod? or Fab) (10N) ((IL-12 (1N) p40) and (IL (1N) B30))
PROXIMITY OPERATION NOT ALLOWED
PROXIMITY OPERATION NOT ALLOWED
PROXIMITY OPERATION NOT ALLOWED
PROXIMITY OPERATION NOT ALLOWED
    PROJECT OPERATION NOT ALLEWARD
CErtain operators may not be nested in combination with other operators. A nested operator is valid only when it occurs at the same level or above the operator outside the nested phrase as determined by the following precedence list:
                                                                                 Numerio
                                                                                 Numeric
(W), (NOTW), (A), (NOTA)
(S), (NOTS)
(P), (NOTP)
(L), (NOTL)
                                                              3.
                                                               5.
                                                                                AND, NOT
     For example, '(MONOCLONAL(W)ANTIBOD?)(L)ANTIGEN?' is valid since (W) is above (L) on the precedence list. However, '((THIN(W)LAYER)(L)PHOSPHOLIPIDH)(A)LACTONE#' is not valid since (L) is below (A) on the precedence list. The only exception is the 'OR' operator. This operator may be used in combination with any other operator. For example, '(ATOMIC OR NUCLEAR)(W)REACTOR' is valid.
      => 8 (antibod? or Fab) (10N) ((IL-12 (1N) p40) (P) (IL (1N) B30))
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PROXIMITY OPERATION NOT ALLOWED
PROXIMITY OPERATION NOT ALLOWED PROXIMITY OPERATION NOT ALLOWED PROXIMITY OPERATION NOT ALLOWED
Certain operators may not be nested in combination with other operators. A nested operator is valid only when it occurs at the same level or above the operator outside the nested phrase as determined by the following precedence list:
                                                   Numeric
(W), (NOTW), (A), (NOTA)
(S), (NOTS)
(P), (NOTP)
(L), (NOTL)
                                                   AND, NOT
For example, '(MONOCLONAL(W)ANTIBOD?)(L)ANTIGEN?' is valid since (W) is above (L) on the precedence list. However, '((THIN(W)LAYER)(L)PHOSPHOLIPID#)(A)LACTONE#' is not valid since (L) is below (A) on the precedence list. The only exception is the 'OR' operator. This operator may be used in combination with any other operator. For example, '(ATOMIC OR NUCLEAR)(W)REACTOR' is valid.
=> s (antibod? or Fab) (10N) ((IL-12 (1N) p40))
L2 46 (ANTIBOD? OR FAB) (10N) ((IL-12 (1N) P40))
=> s 13 not 12
L4 0 L3 NOT L2
> dup rem 12
PROCESSING COMPLETED FOR L2
L5 15 DUP REM L2 (31 DUPLICATES REMOVED)
=> dis 13 ibib abs kwic
        ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER:
DOCUMENT NUMBER:
                                                   2001:185797
134:236233
                                                   Combinations of interleukin-12 p40 subunit with
TITLE:
                                                    interleukin B3D, related reagents and therapeutic uses
                                                  interleukin B30, related reagents and therapeutic uses thereof
Oppmann, Birgit; De Waal, Malefyt Rene; Rennick, Donna M.; Kastelein, Robert A.; Wiekowski, Maria T.; Lira, Sergio A.; Narula, Satwant K.
Schering Corp., USA
PCT Int. Appl., 69 pp.
CODEN: PIXM22
Patent
PROLigh
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
                                                   English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
         PATENT NO.
                                             KIND DATE
                                                                                        APPLICATION NO. DATE
PRIORITY APPLN. INFO .:
          pady/Lr-330 dimer. Methods of using said reagents and diagnostic kits are also provided.

Immunoglobulins
RL. THU (Therapeutic use); BIOL (Biological study); USES (Uses)

[Fv, Fab, or Fab2, IL-12 p40/IL-830
fusion protein binding compd. with; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
          Antibodies
          ARI: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(IL-B3O; combinations of IL-12 p40 subunit with
                 interleukin B30, related reagents and therapeutic uses thereof)
=> dis 15 not 13
L3 IS NOT VALID HERE
For an explanation, enter "HELP DISPLAY".
=> s 15 not 13
L6 14 L5 NOT L3
=> dis 16 1-14 ibib abd kwic
'ABD' IS NOT A VALID FORMAT
In a multifile environment, a format can only be used if it is valid
in at least one of the files. Refer to file specific help messages
or the STNGUIDE file for information on formats available in
individual files.
REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):end
=> dis 16 1-14 ibib abs kwic
                                                MEDLINE
        ANSWER 1 OF 14
L6 ANSWER 1 OF 14
ACCESSION NUMBER: 2002078602 IN-PROCESS
DOCUMENT NUMBER: 21663735 PubMed ID: 11805076
TITLE: KM(+), a lectin from Artocarpus integrifolia, induces IL-12
p40 production by macrophages and switches from type 2 to
```

type 1 cell-mediated immunity against Leishmania major antigens, resulting in BALB/c mice resistance to infection. Panunto-Castelo A, Souza M A, Roque-Barreira M C, Silva J S Departamento de Biologia Celular e Molecular e Bioagentes Patogenicos, Paculdade de Medicina de Ribeirao Preto, Universidade de Sao Paulo, Av. Bandeirantes 3900, Ribeirao Preto, SP 14040-900, Brazil.
GLYCOBIOLOGY, (2001 Dec) 11 (12) 1035-42.
Journal code: 9104124. ISSN: 0959-6658.
England: United Kingdom
Journal: Article: (JOURNAL ARTICLE) AUTHOR CORPORATE SOURCE: SOURCE: PUB. COUNTRY: Journal; Article; (JOURNAL ARTICLE) SURGE: English
SEGMENT: IN-PROCESS; NONINDEXED; Priority Journals
FY DATE: In-PROCESS; NONINDEXED; Priority Journals
FY DATE: Entered STN: 20020128
The outcome and severity of some diseases correlate with the dominance of
either the T helper 1 (Th1) or Th2 immune response, which is stimulated by
IL-12 or IL-4, respectively. In the present study we demonstrate that
gamma interferon (IFN-gamma) secretion by murine spleen cells stimulated
with KM(+), a mannose-binding lectin from Artocarpus integrifolia, is due
to IL-12 induction, because (1) macrophages from several sources
(including cell lines) produced IL-12 p40 in response to KM(+), and (2)
lectin-free supernatants from J774 cell line cultures stimulated with
KM(+) induced the secretion of IFN-gamma by spleen cell cultures, an
effect blocked by the supernatant pretreatment with anti-IL-12 antibody.
The known pattern of susceptibility of BALB/c mice to infection with
Leishmania major, attributed to high levels of IL-4 production leading to
a Th2 nonprotective immune response, was modified by administration of
KM(+). Draining lymph node cells from these immunized BALB/c mice (in
contrast to cells from animals immunized only with soluble leishmanial
antigen [SLA)) secreted high levels of IFN-gamma and low levels of IL-4,
which characterized a Th1 rather than a Th2 response pattern. The footpad
thickness of BALB/c mice immunized with SLA plus KM(+) and challenged with
L. major was similar to that of uninfected mice. This beneficial effect
against leishmanial infection was blocked by pretreatment of these mice
with anti-IL-12 antibody. These observations indicate that KM(+)
induces IL-12 p40 in vivo and has a
protective effect against L. major infection.

ANSWER 2 OF 14 MEDLINE English
IN-PROCESS; NONINDEXED; Priority Journals LANGUAGE: FILE SEGMENT: ENTRY DATE: MEDLINE 2001361390 ACCESSION NUMBER: MEDLINE 21317402 PubMed ID: 11422905 Possible involvement of IL-12 in reovirus type-2-induced diabetes in newborn DBA/1 mice. DOCUMENT NUMBER: Hayashi T; Morimoto M; Iwata H; Onodera T Laboratory of Veterinary Pathology, Yamaguchi University, Yoshida, Yamaguchi 753-8515, Japan. hayashi@agr.yamaguchi-AUTHOR: CORPORATE SOURCE: u.ac.jp SCANDINAVIAN JOURNAL OF IMMUNOLOGY, (2001 Jun) 53 (6) SOURCE: 572-8. Journal code: UCW; 0323767. ISSN: 0300-9475. PUB. COUNTRY: England: United Kingdom Journal; Article; (JOURNAL ARTICLE) LANGUAGE: English FILE SEGMENT: Priority Journals SEGENT: Priority Journals
NY MONTH: 200107
YOU DATE: Entered STN: 20010723
Entered Medline: 20010723
Entered Medline: 20010719
This study extends our previous observations that the reovirus
type-2(Reo-2) can induce autoimmune insulitis, which may be mediated by
T-helper (Th) 1-dependent mechanisms, resulting in diabetes in newborn
DBA/1 mice. In this study mRNA expression for Th1-related cytokines
including Th1 and Th2 cytokines in splenic cells was examined by reverse
transcriptase polymerase chain reaction (RT-PCR) in relation to the
development of insulitis. Furthermore, the effect of monoclonal
antibody (MoAb) against interleukin (IL)-12(
p40) on the development of insulitis and the mRNA expression in
the splenic cells was examined. The mRNA expression for IL-12(p40), IL-18,
and interferon (IFN)-gamma, but not IL-5, increased in the spleen in
parallel with the development of insulitis. The treatment with MoAb to
IL-12(p40) reduced the insulitis with diabetes which was associated with a
decrease in the mRNA expression for IL-12(p40), IL-18 and IFN-gamma, and
an increase of IL-4 mRNA expression in the spleen. The present study
suggested that Th1-dominant systemic immune responses, being responsible
for the development of autoimmune insulitis, might be induced by
IL-12-induced and IL-18-activated mechanisms.

. . . examined by reverse transcriptase polymerase chain reaction
(MT-DCN) in relation to the development of ENTRY MONTH: 200107

11-12-Induced and 11-18-activated mechanisms.
. . . examined by reverse transcriptase polymerase chain reaction (RT-PCR) in relation to the development of insulitis. Furthermore, the effect of monoclonal antibody (MoAb) against interleukin (IL)-12(p40) on the development of insulitis and the mRNA expression in the splenic cells was examined. The mRNA expression for IL-12(p40), . .

ACCESSION NUMBER: DOCUMENT NUMBER:

2001292874 MEDLINE 21257998 PubMed ID: 11358987 Interleukin-18 expression induced by Epstein-Barr virus-infected cells.

virus-infected cells.
Yao L; Setsuda J; Sgadari C; Cherney B; Tosato G
Transplantation Immunology Department, Medicine Branch,
Division of Clinical Sciences, National Cancer Institute,
National Institutes of Health, Bethesda, MD, USA.
Yaol@mail.nih.gov
JOURNAL OF LEUKOCYTE BIOLOGY, (2001 May) 69 (5) 779-84.
Journal code: IWY; 8405628. ISSN: 0741-5400.
United States AUTHOR -CORPORATE SOURCE:

SOURCE:

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

ANGUAGE: English FILE SEGMENT: Priority Journals ENTRY MONTH: 200107

ENTRY DATE:

Y MONTH: 200107
Y DATE: Entered STN: 20010709
Last Updated on STN: 20010830
Entered Medline: 20010705
Human Epstein-Barr virus (EBV)-negative Burkitt lymphomas cells usually grow as malignant subcutaneous tumors in athymic mice, but these tumors regress when the Burkitt cells are injected in conjunction with EBV-positive lymphoblastoid cells or when the Burkitt cells are

transfected with the EBV latent membrane protein-1 (LMP-1) gene. Tumor regression is mediated, in part, by murine interferon gamma (IFN-gamma) and the IFN-gamma-induced murine chemokine IFN-gamma-inducible protein-10 and the IFM-gamma-induced murine chemokine IFM-gamma-inducible protein-(IF1-10). The mechanisms by which EBV-IMP-1 promotes the expression of IFM-gamma has remained unclear. Here we show that murine interleukin (IL)-18 was consistently expressed in regressing Burkitt timors but was either expressed at low levels or absent from progressively growing Burkitt tumors. By immunohistochemical methods, IL-18 protein was Burkitt tumors. By immunohistochemical methods, IL-18 protein was visualized in regressing but not in progressively growing Burkitt tumors. In contrast, IL-12 p35 and IL-12 p40 were only rarely expressed in regressing Burkitt tumors. In splenocyte cultures, EBV-infected lymphoblastoid cells and LMP-I-transfected Burkitt cells promoted the expression of IL-18 but not the expression of IL-12 p35 and IL-12 p40. A neutralizing antibody directed at murine IL-18 reduced murine IP-10 expression induced by EBV-immortalized cells in splenocyte cultures. These results provide evidence for IL-18 expression in response to a viral latency protein and suggest that IL-18 may play an important role as an endogenous inducer of IFN-gamma expression, thereby contributing to tumor regression.

. . . EBV-infected lymphoblastoid cells and LMP-1-transfected Burkitt cells promoted the expression of IL-12 p35 and IL-12 p40. A neutralizing

and IL-12 p40. A neutralizing
antibody directed at murine IL-18 reduced murine IP-10 expression
induced by EBV-immortalized cells in splenocyte cultures. These results provide evidence for. .

L6 ANSWER 4 OF 14 ACCESSION NUMBER: MEDITINE

2000042320 MEDLINE 20042320 PubMed ID: 10573524 DOCUMENT NUMBER:

2004320 Pubmed ID: 105/3524 Requirement for interleukin-12 in the pathogenesis of warm hepatic ischemia/reperfusion injury in mice. Lentsch A B; Yoshidome H; Kato A; Warner R L; Cheadle W G; Ward P A; Edwards M J AUTHOR:

CORPORATE SOURCE:

Ward P A; Edwards M J Department of Surgery, University of Louisville School of Medicine, Louisville, KY 40202, USA. alentschelouisville.edu HEPATOLOGY, (1999 Dec) 30 (6) 1448-53. Journal code: GBZ; 8302946. ISSN: 0270-9139.

SOURCE:

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE) English

LANGUAGE:

FILE SEGMENT: ENTRY MONTH: Priority Journals

Entered STN: 20000113 ENTRY DATE:

Last Updated on STN: 20000113 Entered Medline: 19991216

Entered Medline: 19991216
Hepatic ischemia and reperfusion causes neutrophil-dependent liver injury. Although the mechanisms of ischemia/reperfusion-induced liver neutrophil recruitment are somewhat understood, less is known regarding the early events that initiate the inflammatory injury. Using a murine model of partial hepatic ischemia and reperfusion, we evaluated the role of endogenous interleukin (IL)-12 in this inflammatory response. Hepatic ischemia for 90 minutes and reperfusion for up to 4 hours resulted in hepatocyte expression of IL-12. By 8 hours of reperfusion there were large increases in serum levels of interferon-gamma (IFNgamma) and tumor necrosis factor-alpha (TNFalpha). In addition, hepatic ischemia/reperfusion caused significant increases in liver neutrophil recruitment, hepatocellular injury, and liver edema, as defined by liver myeloperoxidase content, serum alanine aminotransferase, and liver wet todry weight ratios, respectively. In mice treated with neutralizing myeloperoxidase content, serum alanıne aminotransferase, and liver wet to dry weight ratios, respectively. In mice treated with neutralizing antibody to IL-12 and in mice deficient in the IL12 p40 gene, ischemia/reperfusion-induced increases in IFNgamma and TNFalpha were greatly diminished. These conditions also caused significant reductions in liver myeloperoxidase content and attenuated the parameters of liver injury. The data suggest that IL-12 is required for the full induction of injury after hepatic ischemia and reperfusion. reperfusion.

reperfusion.

. . by liver myeloperoxidase content, serum alanine aminotransferase, and liver wet to dry weight ratios, respectively. In mice treated with neutralizing antibody to IL-12 and in mice deficient in the IL-12 p40 gene, ischemia/reperfusion-induced increases in IFNgamma and TMFalpha were greatly diminished. These conditions also caused significant reductions in liver myeloperoxidase content. . .

L6 ANSWER 5 OF 14 ACCESSION NUMBER: MEDLINE

DOCUMENT NUMBER:

MEDLINE
1999441966 MEDLINE
99441966 PubMed ID: 10513808
Differential regulation of rheumatoid synovial cell
interleukin-12 production by tumor necrosis factor alpha

Interleukin-12 production by tumor necross factor alpha and CD40 signals.

Kitagawa M, Mitsui H, Nakamura H, Yoshino S, Miyakawa S, Ochiai N, Onobori M, Suzuki H, Sumida T Institute of Clinical Medicine, University of Tsukuba, Ibaraki, Japan. AUTHOR:

CORPORATE SOURCE:

ARTHRITIS AND RHEUMATISM, (1999 Sep) 42 (9) 1917-26. Journal code: 90M; 0370605. ISSN: 0004-3591. SOURCE:

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE) English

Abridged Index Medicus Journals; Priority Journals FILE SEGMENT:

ENTRY MONTH: ENTRY DATE: Entered STN: 20000111

Last Updated on STN: 20000111 Entered Medline: 19991027

East updated on STN: 20000111

Entered Medline: 19991027

OBJECTIVE: To investigate the roles of tumor necrosis factor alpha(TNFalpha) and the CD40-CD154 interaction in interleukin-12 (IL-12) production by rheumatoid synovial cells (SC). METHODS: Levels of IL-12 (p40 and p70) in synovial tissue and culture supernatants of SC from patients with rheumatoid arthritis (RA), osteoarthritis (OA), and ankylosing spondylitis (AS) were assayed by enzyme-linked immunosorbent assay. Effects of anti-CD154 and anti-TNFalpha antibody on spontaneous and lipopolysaccharide (LPS)-stimulated IL-12 production by SC were examined. Effects of immobilized anti-CD3 treatment and depletion of CD4+ T cells on IL-12 production were also tested. CD154 expression by synovial T cells and intracellular IL-12 production during culture were analyzed by flow cytometry. RESULTS: IL-12 p40 and p70 levels in RA synovial tissue and spontaneous IL-12 p40 production by SC from RA patients were significantly higher than the levels in OA and AS patients. Spontaneous IL-12 production by SC from RA patients significantly decreased after depletion of CD4+ T cells from SC or after application of anti-CD154 antibody, but not by treatment with anti-TMFalpha antibody. Anti-CD3 antibody stimulation increased spontaneous IL-12 p40

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production and CD154 expression by synovial T cells. The increment of IL-12 p40 production by anti-CD3 was abrogated by anti-CD154 antibody. IL-12 p40 production was also increased by LPS stimulation. LPS-stimulated IL-12 production was inhibited by anti-TNPalpha antibody, but not by T cell depletion and anti-CD154 antibody treatment. The TNPalpha inhibitor rolipram inhibited LPS-stimulated IL-12 production by RA SC more strongly than spontaneous production. TNFalpha restored LPS-stimulated IL-12 production that had been inhibited by rolipram. CONCLUSION: IL-12 production in RA is regulated by 2 different pathways. One pathway is T cell dependent, predominantly through a CD40-CD154 interaction, while the other is T cell independent, mediated through TNFalpha. Inhibition of IL-12 production by interference with CD40-CD154 interaction and TNFalpha production may be a potential therapeutic strategy for treating RA.

. . . after depletion of CD4+ T cells from SC or after application of anti-CD154 antibody, but not by treatment with anti-TNFalpha antibody. Anti-CD3 antibody stimulation increased spontaneous IL-12 p40 production and CD154 expression by synovial T cells. The increment of IL-12 p40 production by anti-CD3 was abrogated by anti-CD154 antibody. IL-12 p40 production was also increased by LPS stimulated IL-12 production by anti-CD154 antibody treatment. The TNFalpha inhibitor rolipram inhibited LPS-stimulated IL-12 production by RA SC more strongly than spontaneous production. TNFalpha restored LPS-stimulated IL-12 production that had been inhibited by rolipram.
                                     rolipram..
                                                                                                                                                                                      MEDLINE
                                  ANSWER 6 OF 14
                                                                                                                                                       MEDLINE
199396467 MEDLINE
199396467 MEDLINE
11-12 as a therapeutic target for pharmacological
modulation in immune-mediated and inflammatory diseases:
regulation of T helper 1/T helper 2 responses.
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
                                                                                                                                                           regulation of T helper 1/T helper 2 responses.

Hasko G; Szabo C
Inotek Corp., 100 Cummings Center, Beverly, Massachusetts
01915, USA., ghaskoøinotekcorp.com
BRITISH JOURNAL OF PHARMACOLOGY, (1999 Jul) 127 (6)
1295-304. Ref: 129
Journal code: 800, 7502536. ISSN: 0007-1188.
ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
(REVIEW, TUTORIAL)
English, TUTORIAL)
   AITTHOR:
 CORPORATE SOURCE:
     SOURCE:
   PUB. COUNTRY:
                                                                                                                                                              English
Priority Journals
     LANGUAGE:
                                    SEGMENT: Priority Journals
199910
MONTH: 199910
Last Updated on STN: 19991101
Last Updated on STN: 19991101
Entered Medline: 19991018
Interleukin-12 (IL-12) is a pivotal cytokine in driving the immune system towards a T helper (Th)1 type response and preventing a Th2 type immune profile. Therefore, IL-12 is indispensable in the defense against certain, mainly intracellular pathogens, but overproduction of this cytokine is crucially involved in the etiology of several inflammatory and autoimmune diseases. Hence, IL-12 is an ideal target for pharmacological intervention in the therapy of autoimmune and inflammatory diseases. The production of IL-12 and a resultant Th1 type immune response can be suppressed with several pharmacological approaches including modulation of intracellular cyclic AMP levels, glucocorticoids and nuclear factor-kappaB inhibition. IL-12 responsiveness may be inhibited using anti-IL-12 antibodies, soluble IL-12 receptors or the IL-12 p40 homodimer. Exploitation of these approaches may provide novel means for the experimental therapy of a variety of pathophysiological states.

. . approaches including modulation of intracellular cyclic AMP levels, glucocorticoids and nuclear factor-kappaB inhibition. IL-12 responsiveness may be inhibited using anti-IL-12 antibodies, soluble IL-12 receptors or the IL-12 p40 homodimer. Exploitation of these approaches may provide novel means for the experimental therapy of a variety of pathophysiological states.

ANSWER 7 OF 14 MEDLINE
     FILE SEGMENT:
ENTRY MONTH:
      ENTRY DATE:
                                                                                                                                                                MEDLINE

199323829 MEDLINE

99323829 PubMed ID: 10394102

Expression of B7-1, B7-2, and interleukin-12 in anti-Fas antibody-induced pulmonary fibrosis in mice.

Kuwano K; Kaneko Y; Hagimoto N; Kawasaki M; Kunitake R; Tanaka T; Maeyama T; Miyazaki H; Matsuba T; Hara N Research Institute for Diseases of the Chest, Faculty of Medicine, Kyushu University, Fukucka, Japan.. kkuwano@kokyu.med.kyushu-u.ac.jp

INTERNATIONAL ARCHIVES OF ALLERGY AND IMMUNOLOGY, (1999 Jun) 119 (2) 112-9.

Journal code: BJ7; 9211652. ISSN: 1018-2438.
                                                ANSWER 7 OF 14
             ACCESSION NUMBER:
DOCUMENT NUMBER:
               AUTTHOR:
               CORPORATE SOURCE:
                 SOURCE:
                                                                                                                                                                            Switzerland
                 PUB. COUNTRY:
                                                                                                                                                                            Journal; Article; (JOURNAL ARTICLE)
                                                                                                                                                                            English
Priority Journals
                  LANGUAGE:
                                                 MONTH: 199908

Entered STN: 19990816

Last Updated on STN: 19990816

Entered Medline: 19990804

BACKGROUND: We have previously reported that the inhalation of anti-Fas antibody induced pulmonary fibrosis in mice. To induce an effective immune response, antigen-presenting cells have to not only present antigence costimulating molecules. The purpose of this study is to investigate whether B7 family costimulating molecules and interleukin-12 (IL-12), which primarily promote cellular immunity, are associated with anti-Fas antibody-induced pulmonary fibrosis. METHODS: We examined the expression of B7-1, B7-2, and IL-12 using the revese transcription-polymerase chain reaction (RT-PCR), RT-in situ PCR, and immunohistochemistry. RESULTS: We observed the upregulation of B7-1, B7-2, and IL-12

p40 mRNA after anti-Fas antibody inhalation. B7-2 and IL-12, p40 mRNA appeared to be expressed in mononuclear cells, while B7-1 mRNA and protein were expressed in mononuclear hills: The second of B7-1 and a second of B7-1 and IL-12, and IL-12, and that the aberrant expression of B7-1 in bronchiolar epithelial cells may induce autoreactive T cell proliferation against themselves.
                  FILE SEGMENT:
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. . . the revese transcription-polymerase chain reaction (RT-PCR), RT-in situ PCR, and immunohistochemistry. RESULTS: We observed the upregulation of B7-1, B7-2, and IL-12 p40 mRNA after anti-Fas antibody inhalation. B7-2 and IL-12 p40 mRNA appeared to be expressed in mononuclear cells, while B7-1 mRNA and protein were expressed in bronchiolar cells and cells and cells.
                    epithelial cells as. .
                ANSWER 8 OF 14
ACCESSION NUMBER: 1999316963
DOCUMENT NUMBER: 99316963
                                                                                                                             MEDLINE
                                                                          99316963 PubMed ID: 10390075
Upregulation of antitumor immunity by IL-12
gene-transfected AK-5 tumor cells in vivo.
Nandakumar K S; Lakshmi Rao K; Pardhaearadhi B V; Khar A
AUTHOR
                                                                          Centre for Cellular and Molecular Biology, Hyderabad,
CORPORATE SOURCE:
                                                                          CYTOKINES, CELLULAR AND MOLECULAR THERAPY, (1999 Mar) 5 (1)
SOURCE:
                                                                          Journal code: CUS; 9713367. ISSN: 1368-4736.
                                                                          ENGLAND: United Kingdom
PUB. COUNTRY:
                                                                          Journal; Article; (JOURNAL ARTICLE)
Language:
                                                                           English
              SEGGENT: Priority Journals
YMONTH: 19910
Entered Median: 19991026
Entered Median: 19991026
Entered Median: 19991008
We have earlier demonstrated a significant role for IL-12 in the regression of a rat histiccytic tumor, AK-5. In order to analyze further the antitumor immune rell clones by gene transfection. Significant enhancement in the lytic potential of splenocytes by the culture supernatants containing IL-12 demonstrated retention of biological activity by the tumor cell-derived cytokine. Athymic nude mice transplanted subcutaneously with tumor cells engineered to secret IL-12 showed a significant reduction in tumor size, with enhanced antibody-dependent cellular cytotoxicity. Analysis of the serum samples from animals injected with the IL-12 gene-transfected AK-5 cells on different days revealed a significant increase in circulatory IL-12, interferon (IFN)-gamma, tumor necrosis factor (TNP)-alpha and antitumor antibodies, all of which contributed to the reduction in tumor mass. The enhanced proliferative capacity of splenocytes from these animals indicated the presence of highly activated immune cells in vivo. Similarly, intraperitoneal transplantation of IL-12 gene-transfected tumor cells in syngeneic Wistar rats induced a significant increase in cellular cytotoxicity, with a concomitant reduction in circulatory IL-12 (940) protein. Administration of antibodies to IL-12 and IFN-gamma reduced the expression of the costimulatory molecules B7.1 and B7.2 and the cytolytic effectors granzyme B and Fas-L, suggesting their involvement in IFN-gamma-dependent antitumor immune response induced by IL-12. The present study thus demonstrates that IL-12 gene therapy could be among the promising approaches for an effective cancer therapy.

. . . . . gene-transfected tumor cells in syngeneic Wistar rats induced a
FILE SEGMENT:
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ENTRY MONTH.
                                                                          199910
                 cancer therapy.

. . . gene-transfected tumor cells in syngeneic Wistar rats induced a significant increase in cellular cytotoxicity, with a concomitant reduction in circulatory IL-12 (p40) protein. Administration of antibodies to IL-12 and IFN-gamma reduced the expression of the costimulatory molecules B7.1 and B7.2 and the cytolytic effectors granzyme B.
              ANSWER 9 OF 14 MEDLINE

ISSION NUMBER: 1999120993 MEDLINE

MENT NUMBER: 99120993 PubMed ID: 9922218

Interleukin-12 production by human alveolar macrophages is controlled by the autocrine production of interleukin-10.

Isler P; de Rochemonteix B G; Songeon F; Boehringer N; Nicod L P

Pulmonary Division, University Hospital, Geneva,
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
                                                                          Pulmonary Division, University Hospital, Geneva,
Switzerland.
AMERICAN JOURNAL OF RESPIRATORY CELL AND MOLECULAR BIOLOGY,
CORPORATE SOURCE:
SOURCE:
                                                                          (1999 Feb) 20 (2) 270-8.
Journal code: AOB; 8917225. ISSN: 1044-1549.
United States
PUB. COUNTRY:
                                                                          Journal; Article; (JOURNAL ARTICLE)
                                                                          English
Priority Journals
199903
LANGUAGE:
FILE SEGMENT:
ENTRY MONTH:
ENTRY DATE:
              Entered STN: 19990324
                 crosslinking triggered In-IZ p/O production in the absence of account regulation by IL-10.
... monocytes and in AM. However, IL-12 p70 was released when the autocrine production of IL-10 was neutralized by IL-10 blocking antibody, and IL-12 p40 production increased. Although IFN-gamma markedly decreased LPS-induced IL-10 production in AM, neutralizing IL-10 further enhanced the level of LPS and
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L6 ANSWER 10 OF 14 MEDLINE
ACCESSION NUMBER: 97353200 MEDLINE
DOCUMENT NUMBER: 97353200 PubMed ID: 9209458
Immunoregulation by B7 and IL-12 gene transfer.
AUTHOR: Kato K; Okumura K; Yagita H
CORPORATE SOURCE: Department of Immunology, Juntendo University School of Medicine, Tokyo, Japan.

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LEUKEMIA, (1997 Apr) 11 Suppl 3 572-6.

JOURNAL code: LEU; 8704895. ISSN: 0887-6924.

ENGLAND: United Kingdom
JOURNAL; Article; (JOURNAL ARTICLE)
SOURCE:
  PUB. COUNTRY:
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             ANGUAGE:
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    FILE SEGMENT:
ENTRY MONTH:
                                                Last Updated on STN: 19970813

Last Updated on STN: 19970813

Entered Medline: 19970807

Our recent Studies using various costimulatory molecules have demonstrated that antitumor effect could be induced by B7- or B70-transduced mouse that studies using various costimulatory molecules have demonstrated tumors. To augment antitumor effect in vivo, the combination therapy with tumors. To augment antitumor effect in vivo, the combination therapy with a costimulatory gene and a cytokine, interkeukin 12 (IL-12), gene to treat a costimulatory gene and a cytokine, interkeukin 12 (IL-12), gene to treat a costimulatory gene and a cytokine, interkeukin 12 (IL-12), gene to treat a costimulatory gene and a cytokine, interkeukin 12 (IL-12), gene to treat a costimulatory indicatants and IL-12/B7/3LL) was increased about 10-fold compared by the inoculation of IL-12/B7/3LL) was increased about 10-fold compared by the inoculation with B7 and IL-12-transduced tumors. Four weeks after 3LL of combination with B7 and IL-12-transduced tumors. Four weeks after 3LL of combination with B7 and IL-12-transduced tumors. Four weeks after 3LL inoculation, lung metastasis was significantly reduced by IL-12/B7/3LL inoculation, lung metastasis was significantly reduced by IL-12/B7/3LL inoculation, indicating that potent therapeutic antitumor immunity post-inoculation, indicating that potent therapeutics B7 and IL-12 Recently, can be induced by combination with costimulators B7 and IL-12 Recently, can be induced by combination with costimulators B7 and IL-12 Recently, can be induced by combination with costimulators B7 and IL-12 Recently, can be induced by combination with costimulators B7 and IL-12 Recently, can be induced by combination of IL-12 appeared to be a specific it was reported that p40 subunit of IL-12 appeared to be a specific it was reported that p40 subunit of IL-12 appeared to be a specific it was reported that IL-12 p40 gene transfer may be useful therapeutically in indicating that IL-12 p40 alone. Local production of IL-12 p40 
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Last Updated on STN: 19970813
Entered Medline: 19970807
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ACCESSION NUMBER:
DOCUMENT NUMBER:
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96238996 MEDLINE
96238996 PubMed ID: 8675286
PubM
                                                                                                                                                                                                                                                   Division of Dermatology, Department of Internal Medicine, Washington University School of Medicine, St. Louis, Missouri 63110, USA.
AI31238 (NIAID)
AI34580 (NIAID)
                                                  CORPORATE SOURCE:
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A134580 (NIAID)
INFECTION AND IMMUNITY, (1996 Jun) 64 (6) 1906-12.
Journal code: GO7; 0246127. ISSN: 0019-9567.
                                                      CONTRACT NUMBER:
                                                        SOURCE :
                                                                                                                                                                                                                                                              United States
Journal; Article; (JOURNAL ARTICLE)
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19608

MONTH: 199608

Interled STN: 19960822

Entered Medline: 19960812

Interleukin 12 (IL-12) strongly augments gamma interferon production by

Entered Medline: 19960812

Interleukin 12 (IL-12) strongly augments gamma interferon production by

ell-mediated immune responses, which are particularly important against cell-mediated immune responses, which are particularly important against eintracellular bacteria such as Listeria monocytogenes. While the intracellular bacteria such as Listeria monocytogenes. While the production of IL-12, the relevant gram-positive components which induce production of IL-12, the relevant gram-positive bacteria. Muramyl line THP-1 to study IL-12 induction by gram-positive bacteria. Muramyl line THP-1 to study IL-12 induction by gram-positive bacteria. Muramyl line THP-1 to study IL-12 induction by gram-positive bacteria. Muramyl line THP-1 to study IL-12 induction by gram-positive bacteria component of dipeptides as well as the major muramyl tetrapeptide component of dipeptides as well as the major muramyl tetrapeptide component of streptiococcus pneumoniae were inactive for inducing IL-12. In contrast, streptococcus pneumoniae were inactive for inducing IL-12. In contrast, streptococcus pneumoniae were inactive for inducing IL-12. In contrast, streptococcus pneumoniae were inactive for inducing IL-12. In competitive LPS bacteria, potently induced IL-12 p40 gene expression. A competitive LPS antagonist, Rhodobacter sphaeroides LPS, inhibited LTA-induced IL-12 production, suggesting a common pathway for LPS and LTA also induced Thl development in antibody blocked both LPS and LTA induction of IL-12. Together, these results show induction of physiologic levels of IL-12. Together, these results show induction of physiologic levels of IL-12 rogether, these results show induced IL-12 production, suggesting a common pathway for LPS . LTA-induced IL-12 production, suggesting a common pathway for LPS . LTA-induced IL-12 production, suggesting a common pathway 
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ACCESSION NUMBER:
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96189837 MEDLINE
96189837 PubMed ID: 8602990
96189837 PubMed ID: 8602990
IL-12 is involved in the activation of CD3+ granular
IL-12 is involved in the activation of CD3+ granular
granular lymphocytes.
Zambello R: Trentin L: Cassatella M A; Raimondi R; Cerutti
Zambello R: Trentin L: Cassatella M A; Raimondi R; Cerutti
Zambello R: Fracco M; Agostini C; Semenzato G
A; Enthammer C; Pacco M; Agostini C; Semenzato G
Padua University School of Medicine, Department of Clinial
Medicine, First Medical Clinic, Italy.
Medicine, First Medical Clinic, Italy.
BRITISH JOURNAL OF HAEMATOLOGY, (1996 Feb) 92 (2) 308-14.
JOURNAL OF HAEMATOLOGY, COUNTIES FED STATE STAT
                                                                                                    DOCUMENT NUMBER:
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                                                                                                       AUTHOR:
                                                                                                         CORPORATE SOURCE:
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Last Updated on STN: 19960524

Entered Medline: 19960515

We investigated the effects of Il-12 on functional properties of CD3+ CD8+
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granular lymphocytes (GL) of of patients with lymphoproliferative disease of granular lymphocytes (LDGL). To this aim, in 10 cases with clonal CD3+ of proliferation (nine cases with an associated TCR alpha/beta receptor and one case with a TCR gamma/delta receptor) we studied the proliferative and cytotoxic activities of resting and alpha CD3 monoclonal antibody (mMb) activated cells in the presence of rIL-12 and anti-IL-12 blocking (mMb) activated cells in the presence of rize showed that rIL-12 antibodies. Specific mRNA for IL-12

p40 subunit was also investigated. Our results showed that rIL-12 p40 subunit was also investigated. Our results showed that rIL-12 p40 subunit was also investigated. Our results showed that rIL-12 p40 subunit was also investigated and pre-stimulated GL (2 to 6 times). Indicating the for this cytokine in the alpha CD3-mediated GL growth, suggesting a role for this cytokine in the alpha CD3-mediated GL growth, suggesting a role for this cytokine in the alpha CD3-mediated RL growth, suggesting a role for this cytokine in the alpha CD3-mediated Na activity in the in vivo expanded GL of patients under study. Concerning the in the in vivo expanded GL of patients under study. Concerning the in the in vivo expanded GL of patients under study. Concerning the yetotoxic activity, rIL-12 increased the alpha CD3-mediated NK activity cytotoxic activity, rIL-12 increased the expression of specific mRNA CD3 stimulation, patients' GL increased the expression of specific mRNA CD3 stimulation, patients' GL increased the expression of specific mRNA CD3 the p40 subunit of IL-12 as compared to baseline conditions. Our data for the p40 subunit of IL-12 as compared to baseline conditions. Our data for the p40 subunit of IL-12 involved in the mechanisms of activation of clonal indicate that IL-12 involved in the mechanisms of activation of clonal indicate that IL-12 involved in the mechanisms of activation of clonal indicate that IL-12 involved in the mechanisms of activation of clonal indicate that IL-12 
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                                              ANSWER 13 OF 14
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DOCUMENT NUMBER:
TITLE:
      AUTHOR:
CORPORATE SOURCE:
                                                                                                                                                                                            Medicine, Nashville, Tennessee 37232-2605, USA.
AI-33933 (NIAID)
AI-37216 (NIAID)
JOURNAL OP INFECTIOUS DISEASES, (1995 Sep) 172 (3) 734-8.
Journal code: H3; 0413675. ISSN: 0022-1899.
United States
Journal; Article; (JOURNAL ARTICLE)
Repulsib
      CONTRACT NUMBER:
            SOURCE
            PUB. COUNTRY:
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Abridged Index Medicus Journals; Priority Journals
                                                    SEGMENT: Abridged Index Medicus Journals; Priority Journals
199510
199510
199510
199510
1995101

Entered STN: 19951013
Last Updated on STN: 19951013
Adjuvant effects of exogenous interleukin (IL)-12 on induction of immune responses against respiratory syncytial virus (RSV) infection in mice were evaluated. Giving recombinant IL-12 at the time of immunization with a evaluated. Giving recombinant IL-12 at the time of immunization with a significant reduction of virus replication in lungs 4 days after RSV significant reduction of virus replication in lungs 4 days after RSV challenge. Intraperitoneal or intramuscular IL-12 was effective when given challenge. Intraperitoneal or intramuscular IL-12 was effective when given treatment resulted in increased interferon-gamma mRNA in lungs, increased IgGa RSV-specific antibody isotype utilization, and increased IgGa RSV-specific antibody isotype utilization, and increased readed indoors IL-12 pld mRNA expression. IL-12 endogenous IL-12 pld mRNA expression. IL-12 treatment did not significantly affect clinical outcome or cytotoxic Treatment did not significantly affect clinical outcome or cytotoxic Treatment did not significantly affect clinical outcome or cytotoxic Treatment did not significantly affect clinical outcome or cytotoxic Treatment did not significantly affect clinical outcome or cytotoxic Treatment did not significantly affect clinical outcome or cytotoxic Treatment did not significantly affect clinical outcome or cytotoxic Treatment did not significantly affect clinical outcome or cytotoxic Treatment did not significantly affect clinical outcome or cytotoxic Treatment did not significantly affect clinical outcome or cytotoxic Treatment did not significantly affect clinical outcome or cytotoxic Treatment did not significantly affect clinical outcome or cytotoxic Treatment did not significantly affect clinical outcome or cytotoxic Treatment did not significantly affect clinical outcome or cytotoxic Treatment did not significantly affect clinical outcome or cyto
              TANGUAGE:
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ENTRY MONTH:
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                                                                           responses.

immunization but not at the time of challenge. IL-12 treatment resulted in increased interferon-gamma mRNA in lungs, increased IgG2a RSV-specific antibody isotype utilization, and increased endogenous IL-12 p40 mRNA expression. IL-12 endogenous IL-12 p40 mRNA expression. IL-12 lymphocyte activity. These data demonstrate that IL-12.
                                                                             ANSWER 14 OF 14 CAPLUS COPYRIGHT 2002 ACS
SSION NUMBER: 1999:492730 CAPLUS
                                                                                                                                                                                                                                                                         131:121282
Roles of cytokines in host defense to bacterial
infection in mice
Nakane, Akio; Sasaki, Sanae; Miura, Tomisato; Mizuki,
Mayuko; Yamada, Kyogo; Mizuki, Daisuke; Hasegawa,
                                     ACCESSION NUMBER:
DOCUMENT NUMBER:
                                                                                                                                                                                                                                                                              Suguru
Department of Bacteriology, Hirosaki University School
of Medicine, Hirosaki, 036-8562, Japan
International Congress Series (1999), 1172 (Molecular
International Congress Series (1999), 1172 (Molecular
Medicine: Novel Findings of Gene Diagnosis, Regulation
of Gene Expression, and Gene Therapy), 165-174
CODEN: EXMDA4; ISSN: 0531-5131
Elsevier Science B.V.
Journal
                                         AUTHOR (S):
                                         CORPORATE SOURCE:
                                                SOURCE:
                                                                                     MENT TYPE: Journal

JOURNAL

Antigen-specific CD4+ helper T (Th) cell responses can be divided into MIGHER.

Thl, and Th2, based on cytokine prodn. Differentiation of Th1 cells, which can produce IL-2, IFN-gamma., and lymphotoxin, is driven by IL-12 which can produce IL-2, IFN-gamma., and lymphotoxin, is driven by IL-14, and IFN-gamma., while differentiation of Th2 cells, which produce IL-4, and IFN-gamma., while differentiation of Th2 cells, which produce IL-4, and IFN-gamma.)

IL-5, IF-10, and IL-13, depends on IL-4. We studied the prodn. and roles IL-5, IFN-gamma in mice and roles IL-4, and IFN-gamma in mace IPM-gamma in mace IPM-gamma.

In moncytogenes) and an extracellular-growing Eastphylococcus aureus (S. monocytogenes).

Were used. Mice were infected i.v. (iv) with L. monocytogenes or S. were used. Mice were infected i.v. (iv) with L. monocytogenes or S. IL-4, aureus. Monoclonal antibodies (mabs) against IFN-gamma., IL-4, aureus. Monoclonal antibodies (mabs) against IFN-gamma., IL-4, aureus. Monoclonal antibodies (mabs) against IFN-gamma., IL-4, aureus. Monoclonal supernatants were estd. by ELISAs or RT-PCR. and spleen cell culture supernatants were estd. by ELISAs or RT-PCR. and spleen cell culture supernatants were estd. by ELISAs or RT-PCR. and spleen cell culture supernatants were estd. by ELISAs or RT-PCR. and spleen cell culture supernatants were estd. by ELISAs or RT-PCR. and spleen cell culture supernatants were estd. by ELISAs or RT-PCR. and spleen cell culture supernatants were estd. by ELISAs or RT-PCR. and spleen cell culture supernatants were estd. by ELISAs or RT-PCR. and spleen cell culture supernatants were estd. by ELISAs or RT-PCR. and spleen cell culture supernatants were estd. by ELISAs or RT-PCR. and spleen cell culture supernatants were estd. by ELISAs or RT-PCR. and spleen cell culture supernatants were estd. by ELISAs or RT-PCR. and spleen cell culture supernatants were estd. by ELISAs or RT-PCR. and spleen cell culture supernatants were estd. by ELISAs or RT-PCR. and spleen cell
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LANGUAGE:
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results suggest that Th1-type cytokines are responsible for host defense to a facultative intracellular-growing L. monocytogenes. In contrast, host defense to an extracellular-growing S. aureus is shown to be dependent on Th2-type cytokines.

RENCE COUNT:

15 THERE ARE IS CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT ARTIGEN-specific CD4+ helper T (Th) cell responses can be divided into Th1, and Th2, based on cytokine prodn. Differentiation of Th1 cells, which can produce IL-2, INP-gamma. and lymphotoxin, is driven by IL-12 and IPN-gamma, while differentiation of Th2 cells, which produce IL-4, IL-5, IL-10, and IL-13, depends on IL-4. We studied the prodn. and roles of Th1- and Th2-derived cytokines in bacterial infections such as a facultative intracellular-growing Listeria monocytogenes (L. monocytogenes) and an extracellular-growing Staphylococcus aureus (S. aureus) in mice. Female C57BL/6, C57BL/6-IFN-gamma-/-, and ddy mice were used. Mice were infected i.v. (iv) with L. monocytogenes or S. aureus. Monoclonal antibodies (mkbs) against IFN-gamma., IL-4, IL-10, and IL-12 p40 were injected iv into mice 2 h before infection. Cytokines in the bloodstream, spleen exts., and spleen cell culture supernatants were estd. by ELISAs or RT-PCR. Th1-type responses were obsd. in vivo and in vitro in L. monocytogenes infected mice. IFN-gamma./- mice were highly susceptible to L. monocytogenes infected mice and induced Th2-type responses in immunocompetent mice. On the other hand, Th2-type responses were obsd. in vivo and invitro in S. aureus infected mice. IFN-gamma./- mice were more resistant to S. aureus infected mice. IFN-gamma./- mice were more resistant to S. aureus infected mice. IFN-gamma./- mice were more resistant to S. aureus infected mice. IFN-gamma./- mice. Administration of anti-IL-10 mAb attenuated the host defense. These results suggest that Th1-type cytokines are responsible for host defense to a facultative intracellular-growing S. aureus is shown to be dependent on Th
REFERENCE COUNT:
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                     (FILE 'HOME' ENTERED AT 17:25:42 ON 13 MAY 2002)
                   FILE 'MEDLINE, CAPLUS, EMBASE, BIOSIS' ENTERED AT 17:26:00 ON 13 MAY 2002
46 S (ANTIBOD? OR FAB) (10N) ((IL-12 (IN) P40) OR (IL (IN) B30))
46 S (ANTIBOD? OR FAB) (10N) ((IL-12 (IN) P40))
1 S (ANTIBOD? OR PAB) (10N) ((IL (IN) B30))
0 S L3 NOT L2
15 DUP REM L2 (31 DUPLICATES REMOVED)
L2
L3
L4
L5
L6
                                                     14 S L5 NOT L3
            s oppmann B?/au or De Waal Malefyt R?/au or Rennick D?/au or Kastelein R?/au or Wickowski M?/au or Lira S?/au or Narula S?/au 1800 OPPMANN B?/AU OR DE WAAL MALEFYT R?/AU OR RENNICK D?/AU OR KASTE LEIN R?/AU OR WICKOWSKI M?/AU OR LIRA S?/AU OR NARULA S?/AU
=> s 17 and ((IL (1N) 12 (1N) p40) or (IB (1N) 30) or MISSING TERM AFTER 30) OR Operators must be followed by a search term, L-number, or query name.
  => 8 17 and ((IL (1N) 12 (1N) p40) or (IB (1N) 30)
UNMATCHED LEFT PARENTHESIS 'AND ((IL'
The number of right parentheses in a query must be equal to the
  number of left parentheses.
 => s 17 and ((IL (1N) 12 (1N) p40) or (IB (1N) 30))
L9 9 L7 AND ((IL (1N) 12 (1N) P40) OR (IB (1N) 30))
  => dun rem 19
 PROCESSING COMPLETED FOR L9
L10 4 DUP REM L9
                                                          4 DUP REM L9 (5 DUPLICATES REMOVED)
  => dis 110 1-4 ibib abs kwic
  L10 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:185797 CAPLUS DOCUMENT NUMBER: 134:236233
                                                                                                       Combinations of interleukin-12 p40 subunit with
                                                                                                        interleukin B30, related reagents and therapeutic uses
                                                                                                       Oppmann, Birgit; De Waal, Malefyt
  INVENTOR(S):
                                                                                                      Oppmann, sight; be wad, salely.
Rene; Rennick, Donna M.;
Rastelein, Robert A.; Wiekowski, Maria T.;
Lira, Sergio A.; Narula, Satwant K.
Schering Corp., USA
PCT Int. Appl., 69 pp.
CODEN: PIXXD2
Patent
   PATENT ASSIGNEE(S):
   SOURCE.
                                                                                                       English
   LANGUAGE:
  FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
 PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2001018051 A3 20010920
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LU, LV, MA, MD, MG, MK, MN, MX, ME, NO, NZ, FL, PT, RO, RU, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DB, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CP, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO:

US 1999-164616P P 19991110
                       Purified genes encoding cytokine from a mammal, reagents related thereto including purified proteins, specific antibodies, and mucleic acids encoding this mol. are provided. The invention is specifically directed to compns. comprising combinations of IL-12 p40 subunit with interleukin B30 (IL-B30). Observations indicate that the IL-12 p40/IL-B30 dimer is capable of inducing interferon-.gamma. prodn. by various cells. Moreover,
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the IL-12 receptor beta.1 subunit is a component od the receptor for the p40/IL-B30 dimer. Methods of using said reagents and diagnostic kits are labor provided.

Oppmann, Birgit; De Waal, Malefyt Rene; Rennick, Oppmann, Birgit; De Waal, Malefyt Rene; Rennick, Oppmann, Statelein, Robert A.; Wiekowski, Maria T.; Donna M.; Kastelein, Robert A.; Wiekowski, Maria T.; Lifa, Sargio A.; Narula, Satwant K.
Lifa, Sargio A.; Narula,
              P40/II-B30 dimer. Methods of using said reagents and diagnostic Kits and also provided.

Immunoplobulins
RL: BPR (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (A, effect on; combinations of IL-12 p40 (A), effect on; combinations of IL-12 p40; Subunit with interleukin B30, related reagents and therapeutic uses subunit with interleukin B30, related reagents and therapeutic uses); RIOL (Biological study); USES (Uses) (FV, Fab, or Fab2, IL-12 p40/IL (Biological study); USES (Uses) 12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
Immunoplobulins
Immunoplobulins
                              Immunoglobulins
RL. BBR (Biological process); BSU (Biological study, unclassified); THU
(Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(G. effect on; combinations of IL-12 p40
subunit with interleukin B30, related reagents and therapeutic uses thereof)
                                thereo;)

Primate

(IL-12 p40 and IL-B30 from; combinations

(IL-12 p40 subunit with interleukin
of IL-12 p40 subunit with interleukin
B30, related reagents and therapeutic uses thereof)
B30 proteins (chimeric proteins)
Fusion proteins (chimeric proteins)
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
RL: BAC (Biological activity or effector, except BIOL (Biological study); USES
Btudy, unclassified); THU (Therapeutic use); BIOL (Biological study); USES
                                                             thereof)
                                       (Uses)

(IL-12 p40 with IL-B30; combinations of

(IL-12 p40 subunit with interleukin B30,

related reagents and therapeutic uses thereof)

Steroids, biological studies

SL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(IL-12 p40/IL-B30 antagonist

combined with; combinations of IL-12 p40

subunit with interleukin B30, related reagents and therapeutic uses thereof)
                                                                            thereof)
                                                  Antiviral agents
                                                 Antiviral agents
Chemotherapy
Radiotherapy
(IL-12 p40/IL-B30 fusion
protein combined with; combinations of IL-12
protein combined with; combinations of IL-12
protein combined with; combinations of IL-12
Interleukin 18
Interleukin 1
                                                          therapeutic uses thereof,
Antibodies
RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical
study); BIOL (Biological study); USES (Uses)
(IL-12 p40; combinations of II-
12 p40 subunit with interleukin B30, related reagents
and therapeutic uses thereof)
                                                                                            and therapeutic uses thereof)
                                                               and therapeutic uses thereot)
Analgesics
Anti-inflammatory agents
(IL-B30 agonist in combination with; combinations of IL-
12 p40 subunit with interleukin B30, related reagents
and therapeutic uses thereof)
Interleuking
                                                               Interleukins
RI: BAC (Biological activity or effector, except adverse); BPN
(Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (IL-B30, and dimer with IL-12 p40; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof) interleukin B30, blocking of; combinations of IL-12 (IL-B30, blocking of; combinations of IL-12 have subunit with interleukin B30, related reagents and therapeutic uses thereof)
Antibodies
                                                                               Antibodies
RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
study); BIOL (Biological study); USES (Uses)
(IL-B30; combinations of IL-12 p40
subunit with interleukin B30, related reagents and therapeutic uses
                                                                                                              thereof)
                                                                                 Inflammation
(acute, modulating; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)
Immunostimulants
(adjuvants, IL-12 p40/IL-B30
fusion protein combined with; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)
                                                                                          p40 subunit with interleukin B30, related reagents and
    therapeutic uses thereof)
Autoimmune disease
    (amelioration of; combinations of IL-12 p40
        subunit with interleukin B30, related reagents and therapeutic uses
        thereof)
Cytokines
                                                                                                     Cytokines
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(and agonist or antagonist, in combination with IL-B30 agonists;
(combinations of IL-12 p40 subunit with
interleukin B30, related reagents and therapeutic uses thereof)
Interleukin 10
                                                                                                   Cytokines
                                                                                                       Interleukin 10
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Tumor necrosis factors
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antagonist of, IL-12 p40/IL
-B30 antagonist combined with; combinations of IL-12
p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
 IT Allergy (antagonized allergic effect; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
 IΤ
             Neoplasm
                        (anti-tumor effect; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)
 TT
            Virus
IT Virus

(anti-viral effect; combinations of IL-12

p40 subunit with interleukin E30, related reagents and
therapeutic uses thereof)

IT Drug delivery systems

(aq., carrier selected from water, saline, or buffer; combinations of
IL-12 p40 subunit with interleukin B30,
related reagents and therapeutic uses thereof)
               Bacteria (Eubacteria)
              Prokaryote
(as expression host; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)
Eukaryote (Eukaryotae)
Insect (Insecta)
                 Yeast
                         (cell, as expression host; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)
 IT Inflammation
                         (chronic, amelioration of; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)
            Cell activation
                Drug screening
Immunomodulators
Molecular cloning
                 Test kits
                         (combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
              Antigens
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(complex with antibody; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)
  IT cDNA sequences

(for IL-12 p40 subunit and interleukin
B30; combinations of IL-12 p40 subunit
with interleukin B30, related reagents and therapeutic uses thereof)
              with interleukin B30, related reagents and therapeutic uses thereof)
Gene, animal
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
study); USES (Uses)
(for IL-12 p40; combinations of
IL-12 p40 subunit with interleukin B30,
related reagents and therapeutic uses thereof)
Gene, animal
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
                 study); USES (Uses)
(for IL-B30; combinations of IL-12 p40
subunit with interleukin B30, related reagents and therapeutic uses
thereof)
  IT Digestive tract

(gastroenteriis, acute, modulating, combinations of IL-
12 p40 subunit with interleukin 830, related reagents
and therapeutic uses thereof)
            T cell (lymphocyte)
(helper cell/inducer, TH1, enhance response; combinations of IL
-12 p40 subunit with interleukin B30, related
reagents and therapeutic uses thereof)
              reagents and therapeutic uses thereof)
Liver, disease
Lung, disease
(inflammation, acute, modulating; combinations of IL-
12 p40 subunit with interleukin B30, related reagents
and therapeutic uses thereof)
Interleukin receptors
RL: TRU (Therapeutic use); BIOL (Biological study); USES (Uses)
(interleukin 12, .beta. subunit, antibody against; combinations of
IL-12 p40 subunit with interleukin B30,
related reagents and therapeutic uses thereof)
Animal cell
  IT
            Animal cell
 IT Animal cell

(mammalian, including human, as expression host; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)

IT Neutrophil

(maturation into platelets, accelerating; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)

IT Platelet (blood)

(maturation, accelerating, combinations of IL-12
                          maturation, accelerating, combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)
           therapeutic uses thereby,
T cell (lymphocyte)
(memory, proliferation, induced by IL-B30 or its agonist; combinations of IL-12 p40 subunit with interleukin
B30, related reagents and therapeutic uses thereof)
Cell differentiation
(modulation; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
               thereof)
Drug delivery systems
                         (nasal; combinations of IL-12 p40 Subunit
with interleukin B30, related reagents and therapeutic uses thereof)
               with interleukin 830, telebook 1-29
Protein sequences
(of IL-12 p40 subunit and interleukin
B30; combinations of IL-12 p40 subunit
with interleukin B30, related reagents and therapeutic uses thereof)
  τT
  IT Drug delivery systems (oral; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
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Interleukin 12
RL: BAC (Biological activity or effector, except adverse); BPN
(Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); PRP (Propertiee); TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (p40, and dimer with IL-B30; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
Drug delivery systems (parenterals; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
Cell
                           Cell
   IT
                                               (processes, physiol., modulation; combinations of IL-
12 p40 subunit with interleukin B30, related reagents
and therapeutic uses thereof)
                           Drug delivery systems
(rectal; combinations of IL-12 p40
subunit with interleukin B30, related reagents and therapeutic uses
thereof)
   IT
                           Drug delivery systems
(topical; combinations of IL-12 p40
subunit with interleukin B30, related reagents and therapeutic uses
thereof)

IT Animal

(treating inflammation in; combinations of IL-12

p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)

Interferons

RL. BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(.gamma., increase in prodn. by cell, IL-12

p40/IL-B30 and; combinations of IL-

12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)

IT 20349-72-4P, Interleukin B30 (human precursor) 220349-75-7P, Interleukin B30 (mouse precursor)

RL. BAC (Biological activity or effector, except adverse); BPN (Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (amino acid sequence; combinations of IL-12

p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)

IZ 20349-68-8, DNA (human interleukin B30, related reagents and therapeutic use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (muleotide sequence; combinations of IL-12
                                                 thereof)
                                study); USES (Uses)
(nucleotide sequence; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
                              therapeutic uses thereof)
220349-68-8, DNA (human interleukin B30 cDNA) 220349-69-9
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(mucleotide sequence; combinations of IL-12
p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
     L10 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS
     ACCESSION NUMBER:
DOCUMENT NUMBER:
                                                                                                                                          1999:628071 CAPLUS
131:321311
                                                                                                                                         131:321311
Induction of CD4+ T cell alloantigen-specific hyporesponsiveness by IL-10 and TGF-.beta. Zeller, Jay C.; Panoskaltsis-Mortari, Angela; Murphy, William J.; Ruscetti, Francis W.; Narula, Satwant; Roncarolo, Maria G.; Blazar, Bruce R. Department of Pediatrics, Division of Bone Marrow Transplantation, University of Minnesota Cancer Center, Minneapolis, MN, 55455, USA Journal of Immunology (1999), 163(7), 3684-3691 CODEN: JOIMA3; ISSN: 0022-1767 American Association of Immunologists Journal
     TITLE:
     AUTHOR(S):
     CORPORATE SOURCE:
     SOURCE:
     PUBLISHER:
DOCUMENT TYPE:
                           MENT TYPE: Journal SURGE: Journal SURGE: English
Induction and maintenance of Ag-specific tolerance are pivotal for immune homeostasis, prevention of autoimmune disorders, and the goal of transplantation. Recent studies suggest that certain cytokines, notably IL-10 and TGF-beta. may play a role in down-regulating immune functions. To further examine the role of cytokines in Ag-specific hyporesponsiveness, murine CD4+ T cells were exposed ex vivo to alloantigen-bearing stimulators in the presence of exogenous IL-10 and/or TGF-beta. Primary but not secondary alloantigen proliferative responses were inhibited by IL-10 alone. However, the combined addn. of IL-10 + TGF-beta. markedly induced alloantigen hyporesponsiveness in both primary and secondary MLR cultures. Alloantigen-specific hyporesponsiveness was obsd. also under conditions in which nominal Ag responses were intact. In adoptive transfer expts., IL-10 + TGF-beta.-treated CD4+ T cells, but not T cells treated with either cytokine alone, were markedly impaired in inducing graft-vs-host disease alloresponses to MHC class II disparate recipients. These data provide the first formal evidence that IL-10 and TGF-beta. have at least an additive effect in inducing alloantigen-specific tolerance, and that in vitro cytokines can be exploited to suppress CD4+ T cell-mediated Ag-specific responses in vivo.

RENECE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT Zeller, Jay C.; Panoskaltsis-Mortari, Angela; Murphy, William J.; Ruscetti, Francis W.; Narula, Satwant; Roncarolo, Maria G.; Blazar, Bruce R.
                                                                                                                                             Journal
      LANGUAGE:
                                                                                                                                            English
       REFERENCE COUNT:
                                  Blazar, Bruce R.
Interleukin 12
                                RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study), OCCU (Occurrence) (p40; TL-10 and TOF-.beta. in CD4+T cell alloantigen-specific hyporesponsiveness and the expression of)
       L10 ANSWER 3 OF 4
                                                                                                                                                                                                                                                                                                                      DUPLICATE 1
                                                                                                                                   MEDLINE
                                                                                                               MEDLINE DUPLICATE 1
199903132 MEDLINE
99003132 PubMed ID: 9784526
Resident enteric bacteria are necessary for development of spontaneous colitis and immune system activation in interleukin-10-deficient mice.
Sellon R K; Tonkonogy S; Schultz M; Dieleman L A; Grenther W; Balish B; Reanide D M; Sartor R B
Department of Companion Animal and Special Species,
Pathology and Parasitology, College of Veterinary Medicine,
       ACCESSION NUMBER:
DOCUMENT NUMBER:
       TITLE:
       AUTHOR:
```

CORPORATE SOURCE:

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Journal; Article; (JOURNAL ARTICLE)
  LANGUAGE:
                                SEGMENT: Priority Journals
199811
190811
190811
190812

Entered STN: 19990106

Entered Medline: 19981123

Mice with targeted deletion of the gene for interleukin-10 (IL-10)
spontaneously develop enterocolitis when maintained in conventional
conditions but develop only colitis when kept in specific-pathogen-free
(SPP) environments. This study tested the hypothesis that enteric bacteria
are necessary for the development of spontaneous colitis and immune system
activation in IL-10-deficient mice. IL-10-deficient mice were maintained
in either SPF conditions or germfree conditions or were populated with
bacteria known to cause colitis in other rodent models. IL-10-deficient
mice kept in SPF conditions developed colitis in all segments of the colon
(cecum and proximal and distal colon). These mice exhibited immune system
activation as evidenced by increased expression of CD44 on CD4(+) T cells,
increased mesenteric lymph node cell numbers; and increased production of
immunoglobulin A (IgA), IgG1, and IL-12 p40
from colon fragment cultures. Mice populated with bacterial strains,
including Bacteroides vulgatus, known to induce colitis in other rodent
models had minimal colitis. Germfree IL-10-deficient mice had no evidence
of colitis or immune system activation. We conclude therefore that
resident enteric bacteria are necessary for the development of spontaneous
colitis and immune system activation. In II-10-deficient mice.
Sellon R K; Tonkonogy S; Schultz M; Dieleman L A; Grenther W; Balish E;
Rennick D M; Sattor R B
... CD44 on CD4(+) T cells; increased mesenteric lymph node cell
FILE SEGMENT:
                                                                                                                                                                        Priority Journals
  ENTRY MONTH:
ΑU
                                          Sellon R K; Tonkonogy S; Schultz M; Dieleman L A; Grenther W; Balish E; Remnick D M; Sartor R B
. . . CD44 on CD4(+) T cells; increased mesenteric lymph node cell numbers; and increased production of immunoglobulin A (IgA), IgG1, and IL-12 p40 from colon fragment cultures. Mice populated with bacterial strains, including Bacteroides vulgatus, known to induce colitis in other rodent models.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DUPLICATE 2
  L10 ANSWER 4 OF 4
                                                                                                                                                                                              MEDLINE
                                                                                                                                                                    MEDLINE
94065191 MEDLINE
94065191 PubMed ID: 7902377
Effects of IL-13 on phenotype, cytokine production, and
cytotoxic function of human monocytes. Comparison with IL-4
and modulation by IFN-gamma or IL-10.
de Waal Halefyt R; Figdor C G; Huijbens R;
Mohan-Peterson S; Bennett B; Culpepper J; Dang W; Zurawski
  ACCESSION NUMBER:
DOCUMENT NUMBER:
  TITLE:
AUTHOR:
                                                                                                                                                                          G: de Vries J E
                                                                                                                                                                      G; de Viles J; de 
CORPORATE SOURCE:
SOURCE:
                                                                                                                                                                        United States
Journal; Article; (JOURNAL ARTICLE)
  PUB. COUNTRY:
LANGUAGE:
                                                                                                                                                                          English
                                                                                                                                                                    English
Abridged Index Medicus Journals; Priority Journals
199401
Entered STN: 19940201
Last Updated on STN: 19950206
Entered Medline: 19940106
  FILE SEGMENT:
                                  Last Updated on STN: 19940201
Last Updated on STN: 19950206
Entered Medline: 19940106
Recently, we described the cloning and expression of a human cDNA which is the homologue to P600, a gene transcribed by mouse Th2 clones. Based on its activities on human monocytes and 8 cells this gene was designated IL-13. In the present study we investigated the effects of IL-13 alone or in combination with IL-4, IFN-gamma, or IL-10 on human monocytes. IL-13 induced significant changes in the phenotype of monocytes. IL-13 induced significant changes in the phenotype of monocytes. IL-13 induced the expression of CD11b, CD11c, CD18, CD29, CD49e (VIA-5), class II MHC, CD13, and CD23, whereas it decreased the expression of CD64, CD32, CD16, and CD14 in a dose-dependent manner. IL-13 induced up-regulation of class II MHC Ag and its down-regulatory effects on CD64, CD32, and CD16 expression were prevented by IL-10. IFN-gamma could also partially prevent the IL-13-induced down-regulation of CD64, but not that of CD32 and CD16. However, IL-13 strongly inhibited spontaneous and IL-10- or IFN-gamma-induced ADCC activity of human monocytes toward anti-D coated Rh. erythrocytes, indicating that the cytotoxic activity of monocytes was inhibited. Furthermore, IL-13 inhibited production of IL-1 alpha, IL-1 beta, IL-6, IL-8, IL-10, IL-12 p35, IL-12 p10, macrophage-CSF, granulocyte-CSF, IFN-alpha, and TNF alpha by monocytes activated with IDS. In contrast, IL-13 enhanced the production of IL-1 ra by these cells. Similar results on cytokine production were observed or have been obtained with IL-4. Thus IL-13 han are substiced on the production were observed or have been obtained with IL-4. Thus IL-13 han activities on human monocytes with IL-4, but no additive or synergistic effects of IL-4 and IL-13 on human monocytes were observed, suggesting that these cytokines may share common receptor components. Taken together, these results indicate that IL-13 han anti-inflammatory and important immunoregulatory activities.

Let 10 Let 12 p35, IL-12 
                                              (FILE 'HOME' ENTERED AT 17:25:42 ON 13 MAY 2002)
                                          FILE 'MEDLINE, CAPLUS, EMBASE, BIOSIS' ENTERED AT 17:26:00 ON 13 MAY 2002
46 S (ANTIBOD? OR PAB) (10N) ((IL-12 (1N) P40) OR (IL (1N) B30))
46 S (ANTIBOD? OR PAB) (10N) ((IL-12 (1N) P40))
1 S (ANTIBOD? OR PAB) (10N) ((IL (1N) B30))
0 S L3 NOT L2
15 DUP REM L2 (31 DUPLICATES REMOVED)
L3
L4
L5
L6
L7
L8
L9
L10
                                                                                                               14 S L5 NOT L3
                                                                                             14 5 L3 ROI BJ/AU OR DE WAAL MALEFYT R?/AU OR RENNICK D?/AU OR KA
111 5 L7 AND ((IL (1N) 12) OR (IB (1N) 30))
9 S L7 AND ((IL (1N) 12 (1N) P40) OR (IB (1N) 30))
4 DUP REM L9 (5 DUPLICATES REMOVED)
```

North Carolina State University, Raleigh, North Carolina 27606, USA.
INFECTION AND IMMUNITY, (1998 Nov) 66 (11) 5224-31.
Journal code: GO7; 0246127. ISSN: 0019-9567.

United States

SOURCE:

```
=> dup rem 111
PROCESSING COMPLETED FOR L11
L12 6 DUP REM L11 (5 DUPLICATES REMOVED)
abis 112 1-6 ibib abs kwic
L12 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 2001:185797 CAPLUS DOCUMENT NUMBER: 134:236233
                                                                                                                      Combinations of interleukin-12 p40 subunit with interleukin B30, related reagents and therapeutic uses
                                                                                                                     thereof
Oppmann, Birgit; De Waal, Malefyt
Rene; Rennick, Donna M.;
Kastelein, Robert A.; Wiekowski, Maria T.;
Lira, Sergio A.; Marula, Satwant K.
Schering Corp., USA
PCT Int. Appl., 69 pp.
CODEN: PIXXD2
Datent
INVENTOR(S):
PATENT ASSIGNEE(S):
 SOURCE:
                                                                                                                     Patent
English
  DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                 PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2001018051 A2 20010315 WO 2000-US24686 20000908

WO 2001018051 A3 20010920

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, HR, HU, ID, IL, INN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LU, LV, MA, MD, MG, MK, MN, MX, MZ, NO, NZ, PL, PT, RO, RU, SE, SG, SI, SK, SI, TJ, TM, TR, TT, TZ, UA, UZ, VM, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GM, ML, MR, NE, SN, TD, TG

DRITT APPLN. INFO:

US 1999-1303090 R 19990909

US 1999-1303090 N 19990909

US 1999-146616F P 19991110

Purified genes encoding cytokine from a mammal, reagents related theteto including purified proteins, specific antibodies, and nucleic acids encoding this mol. are provided. The invention is specifically directed to compns. comprising combinations of IL-12

P40/IL-B30 dimer is capable of inducing interferon-gamma. prodn. by various cells. Moreover, the IL-12 receptor . Deta.1 subunit is a component od the receptor for the p40/IL-B30 dimer. Methods of using said reagents and diagnostic kits are also provided.

Dymann, Birgit; De Waal, Malefyt Rene; Rennick, Donna M.: Kastelein, Robert A.: Wickowski, Maria T.; LITA, Sergio A.; Narula, Satwant K.

Purified genes encoding cytokine from a mammal, reagents related thereto including purified proteins, specific antibodies, and nucleic acids encoding this mol. are provided. The invention is specifically directed to compns. comprising combinations of IL-12

P40/IL-B30 dimer is capable of inducing interferon-gamma. prodn. by various cells. Moreover, the IL-12 receptor including purified proteins, specific antibodies, and nucleic acids encoding this mol. are provided. The invention is specifically directed to compnising combinations of IL-12

P40/IL-B30 dimer is capable of inducing interferon-gamma. prodn. by various cells. Moreover, the IL-12 receptor 
                       PATENT NO.
                                                                                                      KIND DATE
                                                                                                                                                                                                         APPLICATION NO. DATE
PRIORITY APPLN. INFO .:
                        Intuming Hosting (Biological process); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses) (A, effect on; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses
                     subunit with interleukin B30, related reagents and therapeut: thereof)
Immunoglobulins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(FV, Fab, or Fab2, IL-12 p40/IL
-B30 fusion protein binding compd. with; combinations of
IL-12 p40 subunit with interleukin B30,
related reagents and therapeutic uses thereof)
Immunoglobulins
                      Immunoglobulins
RL: BPR (Biological process); BSU (Biological study, unclassified); THU
(Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)
(G, effect on; combinations of IL-12 p40
subunit with interleukin B30, related reagents and therapeutic uses
                                     thereof)
                 Primate
                      Primate
(IL-12 p40 and IL-B30
from; combinations of IL-12 p40 subunit
with interleukin B30, related reagents and therapeutic uses thereof)
Pusion proteins (chimeric proteins)
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
IT
                   (Uses)

(IL-12 p40 with IL-B30; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof) Steroids, biological studies
RL: TRU (Therapeutic use); BIOL (Biological study); USES (Uses) (IL-12 p40/IL-B3) antagonist combined with; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof) Antiviral agents (Chemotherapy
                        Chemotherapy
                     Chemotherapy
(IL-12 p40/IL-B30
fusion protein combined with; combinations of IL-12
p40 submit with interleukin B30, related reagents and
therapeutic uses thereof)

The Chemotherapy (USES)

The Chemotherapy (USES)
                      Interleukin 18
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(IL-12 p40/IL-B30
fusion protein combined with; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
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therapeutic uses thereof)
               therapeutic wase tenter, Antibodies
Antibodies
RL, ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(II-12 p40; combinations of II-
12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
               ann therapeutic uses thereof)
Analgesics
Anti-inflammatory agents
(YL-830 agonist in combination with; combinations
of IL-12 p40 subunit with interleukin
B30, related reagents and therapeutic uses thereof)
Interleukins
                 Interleukins
RL. BAC (Biological activity or effector, except adverse); BPN
(Biosynthetic preparation); BPR (Biological process); BSU (Biological
study, unclassified); PRF (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(IL-B30, and dimer with IL-I2
p40; combinations of IL-I2 p40
subunit with interleukin B30, related reagents and therapeutic uses
thereof)
Signal transduction biological
thereof)
IT Signal transduction, biological
(IL-830, blocking of, combinations of IL-
12 p40 subunit with interleukin B30, related reagents
and therapeutic uses thereof)
                 Antibodies
                Antibodies
RL: ARG (Analytical reagent use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(IL-830; combinations of IL-12
p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
Dermatitis
                   Inflammation
                Inflammation
(acute, modulating, combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)
Immunostimulants
(adjuvants, IL-12 p40/IL-
P20 five or protein combined with, combinations of IL-
P20 five or protein combined with, combinations of IL-
                (adjuvants, IL-12 p40/IL-
B30 fusion protein combined with; combinations of IL-
12 p40 subunit with interleukin B30, related reagents
and therapeutic uses thereof)
Autoimmune disease
(amelioration of; combinations of IL-12 p40
                            subunit with interleukin B30, related reagents and therapeutic uses
             thereof)
Cytokines
Ri. TMU (Therapeutic use); BIOL (Biological study); USES (Uses)
(and agonists or antagonist, in combination with IL-
B30 agonists; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)
Interleukin 10
Tumor necrosis factors
Rh: TMU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antagonist of, IL-12 p40/IL-
B30 antagonist combined with; combinations of IL-
12 p40 subunit with interleukin B30, related reagents
and therapeutic uses thereof)
Allergy
                            thereof)
and therapeutic uses

Allergy
(antagonized allergic effect; combinations of IL-12
p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
                Neoplasm
(anti-tumor effect; combinations of IL-12
p40 subunit with interleukin 830, related reagents and
therapeutic uses thereof)
 ſΤ
                Virus
                          (anti-viral effect; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)
              Therapeutic uses thereor;
Drug delivery systems
(aq., carrier selected from water, saline, or buffer; combinations of
It-12 p40 subunit with interleukin B30,
related reagents and therapeutic uses thereof)
Bacteria (Bubacteria)
 IT
                 Prokaryote
(as expression host; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)
                 Eukarvote (Eukarvotae)
                   Insect (Insecta)
                           ast (cell, as expression host; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
 therapeutic uses thereor;

IT Inflammation (chronic, amelioration of; combinations of IL-12
p40 subunit with interleukih B30, related reagents and therapeutic uses thereof)

IT Cell activation
                  Drug screening
Immunomodulators
Molecular cloning
                   Test kits
                           ic xits
(combinations of IL-12 p40 subunit with
interleukin B30, related reagents and therapeutic uses thereof)
                 Antigens RL: BSU (Biological study, unclassified); BIOL (Biological study) (complex with antibody; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof) CDNA sequences (for IL-12 n40 subunit and interleukin
                           NA sequences
(for IL-12 p40 subunit and interleukin
B30; combinations of IL-12 p40 subunit
with interleukin B30, related reagents and therapeutic uses thereof)
                with interleukin B30, related reagents and therapeutic uses thereof) Gene, animal
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
(for IL-12 p40; combinations of
IL-12 p40 subunit with interleukin B30,
related reagents and therapeutic uses thereof)
Gene, animal
RL BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological
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study); USES (Uses)
  (for IL-330; combinations of IL-
12 p40 subunit with interleukin B30, related reagents
and therapeutic uses thereof)
                  Digestive tract
                               gestive tract
(gastroenteritis, acute, modulating; combinations of IL-
12 p40 subunit with interleukin B30, related reagents
and therapeutic uses thereof)
                 T cell (lymphocyte)
(helper cell/inducer, TH1, enhance response; combinations of IL
-12 p40 subunit with interleukin B30, related
reagents and therapeutic uses thereof)
 17
                   Liver, disease
Lung, disease
(inflammation, acute, modulating; combinations of IL-
12 p40 subunit with interleukin B30, related reagents
and therapeutic uses thereof)
 İT
                  Interleukin receptors
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (interleukin 12, .beta. subunit, antibody against, combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
 IT
                   Animal cell
                              (main cell
(mammalian, including human, as expression host; combinations of
IL-12 p40 subunit with interleukin B30,
related reagents and therapeutic uses thereof)
 IT
                   Neutrophil
                              (maturation into platelets, accelerating; combinations of IL-
12 p40 subunit with interleukin 830, related reagents
and therapeutic uses thereof)
IT Platelet (blood)

(maturation, accelerating; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)

IT Tell (lymphocyte)

(memory, proliferation, induced by IL-B30 or its
agonist; combinations of IL-12 p40
subunit with interleukin B30, related reagents and therapeutic uses
thereof)

IT Cell differentiation

(modulations combinations of IL-12 p40
 IT
                   Platelet (blood)
                               (modulation; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
                  Ung delivery systems
(nasal; combinations of IL-12 p40 subunit
with interleukin B30, related reagents and therapeutic uses thereof)
 ΙT
                   with interleukin 830, related leaguest ...

Protein sequences
(of IL-12 p40 subunit and interleukin
830; combinations of IL-12 p40 subunit
with interleukin 830, related reagents and therapeutic uses thereof)
                  with interleukin 830, related leagents and therapeutic Drug delivery systems (oral; combinations of IL-12 p40 subunit with interleukin 830, related reagents and therapeutic uses thereof)
                Interleukin 12

RL: BAC (Biological activity or effector, except adverse); BPN
(Biosynthetic preparation); BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses) (p40, and dimer with IL-B30; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
Drug delivery systems (parenterals; combinations of IL-12 p40 subunit with interleukin B30, related reagents and therapeutic uses thereof)
                    Interleukin 12
                   Cell
(processes, physiol., modulation; combinations of IL-
12 p40 subunit with interleukin B30, related reagents
and therapeutic uses thereof)
Drug delivery systems
(rectal; combinations of IL-12 p40
subunit with interleukin B30, related reagents and therapeutic uses
                   Drug delivery systems
(topical; combinations of IL-12 p40
subunit with interleukin B30, related reagents and therapeutic uses
                                thereof)
                thereof;
Animal
(treating inflammation in; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)
 IT
                 therapeutic uses thereot)
Interferons
RL: BPN (Biosynthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (.gamma., increase in prodn. by cell, IL-12
p40/IL-830 and; combinations of IL
-12 p40 subunit with interleukin B30, related
reagents and therapeutic uses thereof)
220349-72-4P, Interleukin B30 (human precursor) 220349-75-7P,
Interleukin B30 (mouse precursor)
RL: BAC (Biological activity or effector, except adverse); BPN
(Biosynthetic preparation); PRP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Properties); THU (Therapeutic use); BIOL
(Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(amino acid sequence; combinations of IL-12
p40 subunit with interleukin B30, related reagents and
therapeutic uses thereof)
220349-68-8, DNA (human interleukin B30 cDNA) 220349-69-9
RL: BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses)
                   RL. BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (nuclectide sequence; combinations of IL-12 p40 subunit with interleukin BiO, related reagents and therapeutic uses thereof) 220349-68-8, DNA (human interleukin BiO cDNA) 220349-69-9 RL. BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); USES (Uses) (nuclectide sequence; combinations of IL-12 p40 subunit with interleukin BiO, related reagents and therapeutic uses thereof)
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L12 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1999:511252 CAPLUS DOCUMENT NUMBER: 131:143528

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Mammalian cytokine receptor proteins and their CDNA
                                                                                                                                                                       Mammalian cytokine receptor proteins and the:
sequences and interleukin-B30 ligands
sequences, Jeanine D.; McClanahan, Terrill K.;

Kastelein, Robert A.
Schering Corp., USA
PCT Int. Appl., 133 pp.
CODEN: PIXXD2
Patent
TITLE:
INVENTOR(S):
    PATENT ASSIGNEE(S):
                                                                                                                                                                                Patent
       DOCUMENT TYPE:
       English
      LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
                                                  L12 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2002 ACS ACCESSION NUMBER: 1999:628071 CAPLUS
                                                                                                                                                                                                                            131:321311
Induction of CD4+ T cell alloantigen-specific
hyporesponsiveness by IL-10 and TGF.beta.
hyporesponsiveness by IL-10 and TGF.beta.
yeller, Jay C.; Panoskaltsis-Mortari, Angela; Murphy,
Zeller, Jay C.; Panoskaltsis-Mortari, Angela; Murphy,
William J.; Ruscetti, Francis W.; Narula,
William J.; Ruscetti, Francis W.; Narula,
Satwant; Roncarolo, Maria G.; Blazar, Bruce R.
Satwant; Roncarolo, Maria G.; Blazar, Bruce R.
Tansplantation, University of Minnesota Cancer
Transplantation, University of Minne
                                                  ACCESSION NUMBER:
DOCUMENT NUMBER:
                                                      TITLE:
                                                      AUTHOR (S):
                                                         CORPORATE SOURCE:
                                                              PUBLISHER:

AMERICAN ABSOCIATION OF IMMUNICIONES

LANGUAGE:

AN induction and maintenance of Ag-specific tolerance are pivotal for immune momeotasis, prevention of autoimmune disorders, and the goal of transplantation. Recent studies suggest that certain cytokines, notably transplantation. Recent studies suggest that certain cytokines, for the company of the compa
                                                             SOURCE:
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SSION NUMBER:
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BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
2000:467482 BIOSIS
PREV20000467482
PREV20000467482
Expression of the novel cytokine IL-B30
in transgenic mice induces a multi-orqan inflamm
                                                                                             ACCESSION NUMBER:
                                                                                                                                                                                                                                         expression of the mover cyconine in-sav
                                                                                               DOCUMENT NUMBER:
                                                                                                                                                                                                                                         disease.
Wickowski, M. (1); Leach, M.; Evans, E.; Sullivan, L. (1);
Chen, S. (1); Yang, T. (1); Kastelein, R.;
Chen, S. (1); Lira, S. A. (1)
Narula, S. (1); Lira, S. A. (1)
(1) Dpt of Immunology, Schering-Plough Research Institute,
                                                                                                 AUTHOR (S):
                                                                                                     CORPORATE SOURCE:
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2015 Galloping Hill Rd., Kenilworth, NJ, 07033 USA Cytokine, (Nov., 1999) Vol. 11, No. 11, pp. 968. print. Meeting Info: Seventh Annual Conference of the International Cytokine Society Kilton Head, South Carolina, USA Dec SOURCE. UNGS: Conference
English
ARY LANGUAGE: English
Expression of the novel cytokine IL-B30 in transgenic
mice induces a multi-organ inflammatory disease,
Wiekowski, M. (1); Leach, M.; Evans, E.; Sullivan, L. (1); Chen, S. (1);
Yang, T. (1); Kastelein, R.; Narula, S. (1);
Lira, S. A. (1) DOCUMENT TYPE: SUMMARY LANGUAGE: UA MEDLINE
19990031132 PubMed ID: 9784526
Resident enteric bacteria are necessary for development of spontaneous colitis and immune system activation in interleukin-10-deficient mice.
Sellon R K; Tonkonogy S; Schultz M; Dieleman L A; Grenther W; Balish E; Rennick D M; Sartor R B
Department of Companion Animal and Special Species, Pathology and Parasicology, College of Veterinary Medicine, North Carolina State University, Raleigh, North Carolina 27606, USA.
INPECTION AND IMMUNITY, (1998 Nov) 66 (11) 5224-31.
JOURNAL COMPANY OF THE PROPERTY L12 ANSWER 5 OF 6 ACCESSION NUMBER: MEDLINE 1999003132 DUPLICATE 1 DOCUMENT NUMBER: TITLE: AUTHOR: CORPORATE SOURCE: SOURCE: PITE COUNTRY: United States United States
Journal, Article; (JOURNAL ARTICLE)
English
Priority Journals
199811
Entered STN: 19990106 LANGUAGE: FILE SEGMENT: ENTRY MONTH: ENTRY DATE: AU MEDLINE DUPLICATE 2
94065191 MEDLINE DUPLICATE 2
94065191 PuhMed ID: 7902377
Effects of IL-13 on phenotype, cytokine production, and cytotoxic function of human monocytes. Comparison with IL-4 and modulation by IPN-gamma or IL-10.
de Waal Malefyt R; Figdor C G; Huijbens R; Mohan-Peterson S; Bennett B; Culpepper J; Dang W; Zurawski G; de Vries J E ANSWER 6 OF 6 ACCESSION NUMBER: DOCUMENT NUMBER: AUTHOR: Department of Human Immunology, DNAX Research Institute of Molecular and Cellular Biology, Palo Alto, CA 94304-1104. JOURNAL OF IMMUNOLOGY, (1993 Dec 1) 151 (11) 6370-81. Journal code: IFB; 2985117R. ISSN: 0022-1767. CORPORATE SOURCE: SOURCE: PUB. COUNTRY: United States Journal; Article; (JOURNAL ARTICLE) LANGUAGE: English FILE SEGMENT: ENTRY MONTH: ENTRY DATE: Abridged Index Medicus Journals; Priority Journals 199401 Entered STN: 19940201 Last Updated on STN: 19950206 Entered Medline: 19940106 Last Updated on STN: 19950206

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Recently, we described the cloning and expression of a human cDNA which is the homologue to P600, a gene transcribed by mouse Th2 clones. Based on its activities on human monocytes and B cells this gene was designated IL-13. In the present study we investigated the effects of IL-13 alone or in combination with IL-4, IFN-gamma, or IL-10 on human monocytes. IL-13 induced significant changes in the phenotype of monocytes. Like IL-4, it enhanced the expression of CD1h, CD1c, CD18, CD29, CD49e (VIA-5), class II MRC, CD13, and CD23, whereas it decreased the expression of CD64, CD32, CD16, and CD14 in a dose-dependent manner. IL-13 induced up-regulation of class II MRC Ag and its down-regulatory effects on CD64, CD32, and CD16 expression were prevented by IL-10. IFN-gamma could also partially prevent the IL-13-induced down-regulation of CD64, but not that of CD32 and CD16. However, IL-13 strongly inhibited spontaneous and IL-10 or IFN-gamma-induced ADC activity of human monocytes toward anti-D coated Rh-erythrocytes, indicating that the cytotoxic activity of monocytes was inhibited. Furthermore, IL-13 inhibited production of IL-1 alpha, IL-1 beta, IL-6, IL-8, IL-10, IL-12 p35, IL-12 p40, macrophage inflammatory protein-1 alpha, granulocyte/macrophage-CSF, granulocyte-CSF, IFN-alpha, and TNF alpha by monocytes activated with LFS. In contrast, IL-13 enhanced the production of IL-1 as by these cells. Similar results on cytokine production vere observed or have been obtained with IL-4. Thus IL-13 enhanced the production effects of IL-4 and IL-13 on human monocytes were observed, suggesting that these cytokines may share common receptor components. Taken together, these results indicate that IL-13 has anti-inflammatory and important immunoregulatory activities.

de Waal Malefyt R, Figdor C G, Huijbens R, Mohan-Peterson S;

STN INTERNATIONAL LOGOFF AT 17:53:30 ON 13 MAY 2002